

CLAIMS

What is claimed is:

1 1. A computer implemented method of building at least one data display comprises:
2 defining for each data display at least one of
3 an information presence on the display, and
4 an information placement on the display;
5 defining a data-base entity having each of the user defined information placement,
6 and information presence; and
7 generating a display template for any of the data displays depending upon the data
8 display and the record.

1 2. The method defined in claim 1 wherein the defining of an information presence is
2 conditional based upon at least one of a display identification and a display mode.

1 3. The method defined in claim 1 wherein the defining of an information placement is
2 conditional based upon a style.

1
1 4. The method defined in claim 1 wherein the data-base entity includes at least one of a
2 conditional display appearance and a conditional placement data.

1 5. The method defined in claim 1 wherein the data-base entity further includes at least
2 one display tag to be conditionally executed if a display terminal browser requesting a data

3 display has a capability to support the display tag; and the generating further includes
4 generating only each display that is supported by the display terminal browser.

1 6. The method defined in claim 1 further includes displaying a data display from the
2 display template.

1 7. The method defined in claim 1 wherein the defining for each data display includes a
2 user doing the defining through a computer interface.

1 8. The method defined in claim 1 wherein the defining for each data display includes a
2 user doing the defining through a display interface.

1 9. The method defined in claim 1 wherein the defining for each data display includes a
2 user doing the defining through an interactive display layout.

1 10. The method defined in claim 1 wherein the defining an information presence
2 includes at least one of defining a presence for all data displays, and a logical combination of
3 at least one of a specific data display and not a specific data display.

1 11. The method defined in claim 1 wherein the defining an information placement
2 includes at least one of defining a placement for all data displays, and a logical combination
3 of at least one of a specific data display and not a specific data display.

1 12. The method defined in claim 1 wherein the defining an information placement
2 includes modifying the placement of an information on an at least one specified data display.

1 13. The method defined in claim 1 wherein the information display placement includes
2 defining a placement for at least one placement style.

1 14. The method defined in claim 1 wherein the defining an information appearance
2 includes selecting an information to appear and not appear according to at least one mode.

1 15. The method defined in claim 1 wherein the data-base entity includes a record for each
2 of at least one markup/display languages.

1 16. The method defined in claim 1 wherein the data-base entity includes a record that has
2 data that indicates the data displays that the information appears on.

1 17. The method defined in claim 1 wherein the data-base entity includes a pointer to a
2 record that has data that indicates the modes for which each of the data will appear on a data
3 display.

1 18. The method defined in claim 1 wherein the data-base entity includes a record that
2 indicates a position of each data for each data display.

1 19. The method defined in claim 1 wherein the data-base entity includes one of
2 markup/display language statements and position tags

1 20. The method defined in claim 19 wherein the data-base entity includes tags that have a
2 position indicator, and a record that indicates the information displayed in each position.

1 21. The method defined in claim 20 wherein the data-base entity further includes at least
2 one of

3 an at least one mode for which each of the data will appear on the data display,
4 the data displays that each information appears on, and
5 a position that an information appears in a specific style.

1 22. A computer system of a type having a memory and a program encoded in the memory
2 to operate on the computer system, the program comprising:

3 display appearance input instructions to input into a multi-display database an
4 identification of information that is each to appear on at least one of a plurality of distinct
5 data displays;

6 display placement input instructions to input into the multi-display database a
7 placement data of each of the information on each data display in which the data appears;

8 database maintenance instructions to implement and maintain the database depending
9 upon the inputs from the display appearance input instructions and the display placement
10 input instructions; and

11 display template generation instructions to generate a display template from the
12 database depending upon any of the data displays.

1 23. The computer system defined in claim 22 wherein the program includes:
2 instructions to generate an input interactive display for inputting by a user of an
3 identification of information to appear on the plurality of distinct data displays and a
4 placement of the information to appear on the data displays;
5 wherein the display appearance input instructions input the information to appear on
6 the plurality of data displays to the database, and the display placement instructions input the
7 placement of the information to the database.

1
1 24. The computer system defined in claim 23 wherein the interactive display is sent to a
2 network-coupled computer system.

1 25. The computer system defined in claim 22 wherein the program includes:
2 a user information appearance instructions for the memory to receive from a user the
3 identification of information that is each to appear on the at least one data displays, and
4 the display appearance input instructions are to receive the identification of
5 information from the memory.

1 26. The computer system defined in claim 22 wherein the program includes:

2 user information placement instructions for the memory to receive from a user the
3 placement of each of the information of the information that is to appear on the data displays,
4 and

5 the display placement input instructions are to receive the placement data from the
6 memory.

1 27. The computer system defined in claim 22 wherein the defining of an information
2 placement is contingent upon a style that is user input.

1 28. The computer system defined in claim 22 wherein the defining of an information
2 appearance is contingent upon each data display that is user input.

1 29. The computer system defined in claim 22 wherein the defining of an information
2 appearance is contingent upon a display mode of each information that is user input.

1 30. The computer system defined in claim 22 wherein the multi-display database includes
2 a common template for each data display that has a contingent display capability for at least
3 one of the information, and a contingent placement capability for at least one of the
4 information.

1 31. The computer system defined in claim 22 wherein the database maintenance
2 instructions include instructions to implement and maintain the database to have contingent
3 appearance information and to have contingent placement information.

1 32. The computer system defined in claim 31 wherein the contingent appearance data
2 depends upon a display mode and a display identification.

1 33. The computer system defined in claim 31 wherein the contingent placement data
2 depends upon a style identification.

1 34. The computer system defined in claim 22 wherein the maintenance instructions
2 include instructions to implement and maintain more than one record, each record having
3 markup/display instructions in a separate language and wherein the display template
4 generation instructions are to generate a display template having one of the markup/display
5 languages according to a user generated selection.

1 35. The computer system defined in claim 22 wherein the database includes at least one
2 display tag to be conditionally executed if a display terminal browser requesting a data
3 display has a capability to support the display tag; and the display template generation
4 instructions further include instructions to generate each data display from the database based
5 upon the capability of a user selected browser by conditionally executing the display tag
6 based upon the user selected browser.

1 36. The computer system defined in claim 22 wherein the program further includes
2 instruction to send the display template to a network.

1 37. A machine-readable medium that provides instructions, which when executed by a
2 processor, cause the processor to perform operations comprising:

3 inputting into a multi-display database an identification of information that is each to
4 appear on at least one of a plurality of distinct data displays;

5 inputting into the multi-display database a placement data of each of the information
6 on each display in which the data appears;

7 implementing and maintaining the information in the database depending upon the
8 inputs from the display appearance input instructions and the display placement input
9 instructions; and

10 generating a display template from the database depending upon any of the data
11 displays.

1 38. The medium defined in claim 37 wherein the operations include:

2 generating an input interactive display for inputting by a user of an identification of
3 information to appear on the plurality of distinct data displays and a placement of the
4 information to appear on the data displays;

5 wherein the display appearance input instructions input the information to appear on
6 the plurality of data displays to the database, and the display placement instructions input the
7 placement of the information to the database.

1 39. The medium defined in claim 38 wherein the operation include sending the
2 interactive display to a network-coupled computer system.

1 40. The medium defined in claim 37 wherein the operations include receiving from an
2 interface the identification of information that is each to appear on the at least one data
3 displays.

1 41. The medium defined in claim 37 wherein the operations include receiving from an
2 interface the placement of each of the information of the information that is to appear on the
3 data displays.

1 42. The medium defined in claim 37 wherein the inputting a placement of data is based
2 upon a style that is user input.

1 43. The medium defined in claim 37 wherein the inputting an identification of
2 information that is each to appear is based upon each data display that is user input.

1 44. The medium defined in claim 37 wherein the inputting an identification of
2 information to appear is based upon a display mode of each information that is user input.

1 45. The medium defined in claim 37 wherein the operations include generating a
2 common template for each data display that has a contingent display capability for at least
3 one of the information, and a contingent placement capability for at least one of the
4 information.

1 46. The medium defined in claim 37 wherein the instructions for implementing and
2 maintaining the database generate contingent appearance information and contingent
3 placement information in the database.

1 47. The medium defined in claim 46 wherein the contingent appearance data is based
2 upon a display mode and a display identification.

1 48. The medium defined in claim 46 wherein the contingent placement data is based upon
2 a style identification.

1 49. The medium defined in claim 37 wherein the operation of implementing and
2 maintaining the database include implementing and maintaining more than one record, each
3 record having markup/display instructions in a separate language and wherein the display
4 template generation instructions are to generate a display template having one of the
5 markup/display languages according to a user generated selection.

1 50. The medium defined in claim 37 wherein the database includes at least one display
2 tag to be conditionally executed if a display terminal browser requesting a data display has a
3 capability to support the display tag; and the generating a display template operations further
4 include operations generating each data display from the database based upon the capability
5 of a user selected browser by conditionally executing the display tag based upon the user
6 selected browser.

1 51. The computer system defined in claim 37 wherein the operations further include
2 sending the display template to a network-coupled computer..